

Tradinghouse Creek Dam and Tradinghouse Creek Reservoir

OWNER

Texas Power & Light Company.

ENGINEER (Design)

Forrest and Cotton, Inc.

LOCATION

On Tradinghouse Creek in McLennan County, 9 miles east of Waco.

DRAINAGE AREA

39 square miles.

DAM

TypeEarthfill

Length7,600 ft including service spillway

Height60 ft above streambed

Top width20 ft

Top elevation456.0 ft above msl

SPILLWAY (emergency)

LocationRight end of the dam

Crest length1,500 ft

Crest elevation450.0 ft above msl

SPILLWAY (service)

LocationLeft end of the dam

TypeConcrete ogee section

Crest length (net)80 ft

Control2 tainter gates, each 40 by 20 ft

Crest elevation430.0 ft above msl

OUTLET WORKS

None. Water is circulated from reservoir to powerplant and back to reservoir.

POWER FEATURES

Present construction—2 units with total capacity of 1,340,000 kw. Ultimate—3 units with total capacity of 2,000,000 kw.

STATE AUTHORIZATION

Permit No. 2250 (Application No. 2474) January 16, 1967, authorizes construction of a dam to impound 37,814 acre-feet of water and to divert and use 15,000 acre-feet annually for the operation of a steam-electric powerplant. Water is purchased from the Brazos River Authority for pumping and to maintain downstream requirements. Reservoir operating level is maintained by pumping from the Brazos River.

RESERVOIR DATA

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	456.0	—	—
Emergency spillway crest	450.0	—	—
Normal water surface elevation	447.0	37,814	2,010
Service spillway crest	430.0	—	—
Streambed	390±	—	—
Sediment storage	2 —	2,690	—
Usable conservation storage space	—	35,124	—

GENERAL

Construction startedFebruary 13, 1967

Dam completedSeptember 24, 1968

Impoundment of water began
(pumping)July 5, 1968

General contractorAmis Construction Company

